

2006 JEEP® COMMANDER SPECIFICATIONS

All dimensions are in inches (millimeters) unless otherwise noted.
All dimensions measured at curb weight with 4.7-liter engine and 245/65R17 tires.

GENERAL INFORMATION

Vehicle Type _____ Sport-utility
Construction _____ Steel UniFrame®
Assembly Plant _____ Jefferson Avenue North, Detroit, USA and Graz, Austria
EPA Vehicle Class _____ Special Purpose 4WD
2006 MY Introduction _____ October 2006 (NAFTA Markets)

ENGINE: 3.7-LITER SOHC V-6

Availability _____ Std. Commander
Type and Description _____ 90-degree V-type, liquid-cooled with balance shaft
Displacement _____ 226 cu. in. (3701 cu. cm)
Bore x Stroke _____ 3.66 x 3.57 (93.0 x 90.8)
Valve System _____ Chain-driven SOHC, 12 valves, and hydraulic end-pivot roller rockers
Fuel Injection _____ Sequential, multi-port, electronic, returnless
Construction _____ Cast-iron block and bedplate, aluminum alloy heads, balance shaft
Compression Ratio _____ 9.7:1
Power (estimated SAE net) _____ 210 hp (157 kW) @ 5,200 rpm (56.7 bhp/L)
Torque (estimated SAE net) _____ 235 lb.-ft. (319 N•m) @ 4,000 rpm
Max. Engine Speed _____ 5,800 rpm (electronically limited)
Fuel Requirement _____ Unleaded regular, 87 octane (R+M)/2
Oil Capacity _____ 5.0 qt. (4.7L)
Coolant Capacity _____ 14.0 qt. (13.25L)
Emission Controls _____ Dual, three-way catalytic converters,
quad heated oxygen sensors and internal engine features(a)
Estimated EPA Fuel Economy mpg (City/Hwy) _____ 16/20

(a) Meets LEV II evaporative emission requirements in California, New York, Massachusetts, Maine and Vermont.
Meets Tier 2, Bin 5 emission requirements and Clean Fuel Fleet Certification (CCF-LEV) in all other states.

ENGINE: 4.7-LITER SOHC V-8

Availability _____ Std.—Limited, Opt.—Commander
Type and Description _____ 90-degree V-type, liquid-cooled
Displacement _____ 287 cu. in. (4701 cu. cm)
Bore x Stroke _____ 3.66 x 3.41 (93.0 x 86.5)
Valve System _____ Chain-driven SOHC, 16 valves, and hydraulic end-pivot roller rockers
Fuel Injection _____ Sequential, multi-port, electronic, returnless
Construction _____ Cast-iron block and bedplate, aluminum alloy heads
Compression Ratio _____ 9.0:1
Power (estimated SAE net) _____ 235 bhp (172 kW) @ 4,500 rpm (50.0 bhp/L)
Torque (estimated SAE net) _____ 305 lb.-ft. (393 N•m) @ 3,600 rpm
Max. Engine Speed _____ 6,000 rpm (electronically limited)
Fuel Requirement _____ Unleaded regular, 87 octane (R+M)/2
Oil Capacity _____ 6 qt. (5.7L)
Coolant Capacity _____ 14.0 qt. (13.25L)
Emission Controls _____ Dual, three-way catalytic converters,
quad heated oxygen sensors, internal engine features(a)
Estimated EPA Fuel Economy mpg (City/Hwy) _____ 15/19

(a) Meets LEV II evaporative emission requirements in California, New York, Massachusetts, Maine and Vermont.
Meets Tier 2 Bin 8A emissions requirements and Clean Fuel Fleet Certification (CCF-LEV) in all other states.
Meets Euro IV in international markets.

ENGINE: 5.7-LITER HEMI® V-8

Availability _____ Opt. Limited
 Type and Description _____ 90-degree V-type, liquid-cooled
 Displacement _____ 345 cu. in. (5654 cu. cm)
 Bore x Stroke _____ 3.92 x 3.58 (99.5 x 90.9)
 Valve System _____ Pushrod-operated overhead valves, 16 valves, eight deactivating and
 eight conventional hydraulic lifters, all with roller followers
 Fuel Injection _____ Sequential, multi-port, electronic, returnless
 Construction _____ Deep-skirt cast-iron block with cross-bolted main bearing caps,
 aluminum alloy heads with hemispherical combustion chambers
 Compression Ratio _____ 9.6:1
 Power (estimated SAE net) _____ 330 bhp (246 kW) @ 5,000 rpm, (58.3 bhp/L)
 Torque (estimated SAE Net) _____ 375 lb.-ft. (508 N•m) @ 4,000 rpm
 Max. Engine Speed _____ 5,800 rpm (electronically limited)
 Fuel Requirement _____ Unleaded mid-grade, 89 octane (R+M)/2 recommended,
 Unleaded regular, 87 octane (R+M)/2 acceptable
 Oil Capacity _____ 7 qt. (6.6L)
 Coolant Capacity _____ 14.5 qt. (13.72L)
 Emission Controls _____ Dual, close-coupled three-way catalytic converters,
 quad heated oxygen sensors and internal engine features(a)
 Estimated EPA Fuel Economy, mpg (City/Hwy) _____ 14/18

(a) 53 Meets LEV II evaporative emission requirements in California, New York, Massachusetts, Maine, and Vermont.
 Meets Tier 2 Bin 8A emissions requirements and Clean Fuel Fleet Certification (CCF-LEV) in all other states.
 Meets Euro IV in international markets.

TRANSMISSION: W5A580 AUTOMATIC, FIVE-SPEED OVERDRIVE

Availability _____ Included with 3.7-liter V-6 engine
 Description _____ Adaptive electronic control
 or Electronic Range Select (ERS) driver-interactive manual control
 and electronically modulated torque converter clutch
 Gear Ratios
 1st _____ 3.59
 2nd _____ 2.19
 3rd _____ 1.41
 4th _____ 1.00
 5th _____ 0.83
 Reverse _____ 3.16
 Final Drive Ratio _____ 3.07:1 with 3.7L engine or 3.55:1 with 3.7L engine and
 NV245 transfer case
 Overall Top Gear _____ 2.55 with 3.07 axle or 2.95 with 3.55 axle

TRANSMISSION: 5-45RFE, AUTOMATIC MULTI-SPEED

Availability _____ Included with 4.7L and 5.7L engines
 Description _____ Three planetary gear sets, one overrunning clutch, with Electronic Range Select (ERS)
 driver interactive control, electronically controlled torque converter clutch
 Gear Ratios
 1st _____ 3.00
 2nd _____ 1.67 upshift; 1.50 kick-down
 3rd _____ 1.00
 4th _____ 0.75
 5th _____ 0.67
 Final Drive Ratio _____ 3.73 with 4.7L or 5.7L engine
 Overall Top Gear _____ 2.50 with 3.73 axle

TRANSFER CASE: NV140

Availability _____ Std. with 3.7L engine
 Type _____ Single-speed, electronically shifted

Operating Mode _____ Full-time 4x4
Low Range Ratio _____ None
Center Differential Type _____ Electronically controlled clutch pack torque transfer
Torque Split, Front/Rear _____ 48/52

TRANSFER CASE: NV245

Availability _____ Included with 4.7L and 5.7L engines; Opt. with 3.7L engine
Type _____ Two-speed, electronically shifted
Operating Modes _____ 4x4 Low (Lock), Neutral; Full-time active 4x4
Low Range Ratio _____ 2.72
Center Differential Type _____ Electronically controlled clutch pack torque transfer
Torque Split, Front/Rear _____ 48/52

FRONT AXLES

Differential Type _____ Conventional/Corporate
Availability _____ Std. on 4x4 models
Ring Gear Diameter _____ 7.9 in. (200 mm)
Axle Ratios _____ 3.07:1 3.7L engine
3.55:1 3.7L engine with NV245 transfer case or
3.73:1 4.7L and 5.7L engines
Differential Type _____ Electronic Limited Slip Differential (ELSD)
Availability _____ Std. on 5.7L 4x4 models, opt. On 4.7L 4x4 models with
NV245 transfer case (Quadra-Drive II)
Ring Gear Diameter _____ Same as standard
Axle Ratios _____ Same as standard

REAR AXLES

Differential Type _____ Conventional/Corporate
Availability _____ Std. 3.7L, 4.7L models
Ring Gear Diameter _____ 8.3 in. (213 mm)
Axle Ratios _____ 3.07:1 3.7L engine
3.55:1 3.7L engine with NV245 transfer case or
3.73:1 4.7L and 5.7L V-8 engines
Differential Type _____ Electronic Limited Slip Differential (ELSD)
Availability _____ Std. on 5.7L 4x4 models, opt. on 4.7L 4x4 models with
NV245 transfer case (Quadra-Drive II)
Ring Gear Diameter _____ Same as conventional
Axle Ratios _____ Same as conventional

ELECTRICAL SYSTEM

Alternator _____ 160-amp (all engines except diesel)
Battery _____ Group 65 Maintenance-free 730 CCA

DIMENSIONS AND CAPACITIES

Wheelbase _____ 109.5 (2781)
Track, Front _____ 62.6 (1589)
Track, Rear _____ 62.6 (1589)
Overall Length _____ 188.5 (4787)
Body Width _____ 74.8 (1900)
Overall Height _____ 71.9 (1826)
Load Floor Height _____ 36.2 (920.3)
Sill Step Height Ground Clearance _____ 9.9 (504.9) (4x4)
Chassis (Fuel tank) _____ 9.9 (250.6)
Front Axle _____ 9.0 (227.4)
Rear Axle _____ 8.6 (217.9)
Approach Angle, degrees _____ 34.0
Ramp Breakover Angle, degrees _____ 20.0
Departure Angle, degrees _____ 27.0

Aero Cd(a) _____ 13.26
 Fuel Tank Capacity _____ 20.5 gal. (77.6L)

(a) Specifically ground to H-point measurement.

ACCOMMODATIONS

Seating Capacity, Front/Second/Third _____ 2/3/2

Front Seat

Head room _____ 42.1 (1069.3)
 Leg room _____ 41.7 (1058.4)
 Shoulder room _____ 59.0 (1498.6)
 Hip room _____ 55.6 (1412)
 Seat travel, driver/passenger _____ 10.6 (270)/9.84 (250)
 SAE volume _____ 68.5 cu. ft. (1.93 cu. m)
 H-point(a) _____ 29.4 (746.9)

Second-row Seat

Head room _____ 40.3 (1021.6)
 Leg room _____ 36.1 (916)
 Shoulder room _____ 58.5 (1485.9)
 Hip room _____ 54.0 (1371.6)
 Couple _____ 33.0 (838.4)
 SAE volume _____ 36.3 cu. ft. (1.03 cu. m)
 H-point(a) _____ 34.3 (871.5)

Third-row Seat

Head room _____ 35.7 (907.6)
 Leg room _____ 28.9 (734)
 Shoulder room _____ 50.4 (1280.8)
 Hip room _____ 57.4 (1458.5)
 Couple _____ 33.0 (838.2)
 SAE volume _____ 7.5 cu. ft. (0.21 cu. m)
 H-point(a) _____ 39.4 (1001.9)

Cargo Volume

Behind third-row seat _____ 7.5 cu. ft. (.17 cu. m)
 Behind front-row seats with second- and third-row seats folded _____ 36.4 cu. ft. (1.03 cu. m)
 Behind front-row seats with third-row seats folded _____ 68.9 cu. ft. (1.95 cu. m)

(a) Specifically ground to H-point measurement.

WEIGHTS

Drive	Model	Engine	GVWR(a), lbs. (kg)	Curb Weight(b), lbs. (kg)	Payload(c), lbs. (kg)
4x2	Commander	3.7L	6200 (2812)	4581 (2077)	1620 (740)
		4.7L	6200 (2812)	4709 (2134)	1490 (810)
	Limited	4.7L	6200 (2812)	4811 (2182)	1390 (600)
4x4	Commander	5.7L	6200 (2812)	4930 (2236)	1270 (575)
		3.7L	6400 (2903)	4783 (2170)	1620 (730)
	Limited	4.7L	6400 (2903)	4951 (2289)	1450 (650)
		4.7L	6400 (2903)	5047 (2289)	1350 (615)
		5.7L	6400 (2903)	5169 (2361)	1230 (560)

BODY

4x2

Layout _____ Longitudinal front engine, rear drive
 Construction _____ Steel UniFrame®

4x4

Layout _____ Longitudinal front engine,

Construction _____ transfer case with full-time four-wheel drive
 _____ Steel UniFrame

SUSPENSION

Front _____ Short/long Independent (SLA), coil springs, gas-charged,
 twin-tube coil over shock absorbers, upper and lower control arms (A arms), stabilizer bar
 Rear _____ Live axle, link coil with track bar,
 gas-charged twin-tube shock absorbers, stabilizer bar

STEERING

Type _____ Power rack and pinion
 Overall Ratio _____ 17:4:1 on center, 15.45:1 at full lock
 Turning Diameter (curb-to-curb)(d) _____ 36.7 ft. (11.2 m)
 Steering Turns (lock-to-lock) _____ 3.14

- (a) Gross Vehicle Weight Rating.
- (b) Curb weight includes standard equipment and full quantities of fuel, lubricant and coolant.
- (c) Payload is the maximum allowable weight of driver, passengers and cargo, rounded to the nearest 10 lbs. (5kg).
- (d) Turning diameter is measured at the outside of the tires at curb height. Turning diameters and steering wheel turns, lock-to-lock may differ with optional tires and wheels.

BRAKES

Front
 Size and type _____ 12.9 x 1.2 (328 x 30) vented disc
 with 1.89 (48) two-piston pin-slider caliper and std. ESP
 Swept area _____ 272 sq. in. (1820 sq. cm)
 Rear
 Size and type _____ 12.6 x 0.55 (320 x 14) disc
 with 1.89 (48) single-piston pin-slider caliper and std. ESP
 Swept area _____ 257 sq. in. (1658 sq. cm)
 Power Assist Type _____ 9-inch (230 mm) single-rate, tandem diaphragm vacuum

WHEELS

Standard
 Type and material _____ Commander—17- x 7.5-inch Machined-face Aluminum with *Sparkle Silver* pockets
 Limited—17- x 7.5-inch Machined-face Aluminum with *Sparkle Silver* pockets
Optional
 Type and material _____ Commander—17- x 7.5-inch Painted (Mineral Gray) Aluminum
 Limited—17- x 7.5-inch Chrome-Clad Aluminum

TIRES

Standard
 Manufacturer and model _____ Commander and Commander Limited 4x2 and 4x4—Goodyear *Fortera* HP
 Size and type _____ P245/65R17 BSW A/T(a)(b)
 Manufacturer and model _____ Commander and Commander Limited 4x2 and 4x4—Goodyear *Fortera* HP
 Size and type _____ P245/65R17 OWL A/T(a)(b)

- (a) BSW = black sidewall, OWL = Outline White Letter, A/T = All Terrain
- (b) Canadian market Limited: OWL standard; BSW optional

TRAILER TOWING(a)

Drive	Engine	Axle Ratio	Maximum Trailer Weight(b) 64 lbs. (kg)
4x2	3.7L V-6	3.07 or 3.55	3500 (1600)
	4.7L V-8	3.73	6500 (3000)
	5.7L V-8	3.73	7200 (3300)
4x4	3.7L V-6	3.07	3500 (1600)
	4.7L V-8	3.73	6500 (3000)
	5.7L V-8	3.73	7200 (3300)

- (a) All models can tow trailers up to 2,000 pounds with the addition of a trailer hitch. For towing heavier trailers up to the Maximum Trailer Weight Ratings shown in the Trailer Towing chart, the vehicle must be equipped with the Trailer Tow Group for the 3.7-liter engine or Trailer Tow Group IV for the 4.7-liter and 5.7-liter engines for North America. International vehicles require Trailer Tow Group.
- (b) Maximum Trailer Weight = GCWR - Curb Wt. - 150 lbs. (allowance for driver) and must be decreased by the weight of optional equipment, trailer hitch, cargo and passengers. Maximum trailer weights shown are rounded to the nearest 50 lbs. less. Tongue weight should be 10-15% of loaded trailer weight but may not cause vehicle to exceed GVWR or GAWR. Load equalizing hitch recommended for trailers over 2,000 pounds.